

**FIG. 1**  
**(PRIOR ART)**

100

```
<NAMES>
  <NAME> <LAST_NAME>105
    Erwin
    </LAST_NAME>110
    <FIRST_NAME>115
    Cody      120
    </FIRST_NAME>125
    <MIDDLE_INITIAL />
  </NAME>
  <NAME>
    <LAST_NAME_SUFFIX = "Jr.">
      Curtis
      </LAST_NAME>
      <FIRST_NAME>John
      </FIRST_NAME>
      <MIDDLE_INITIAL />
    </NAME>
</NAMES>
```

FIG. 2  
(PRIOR ART)

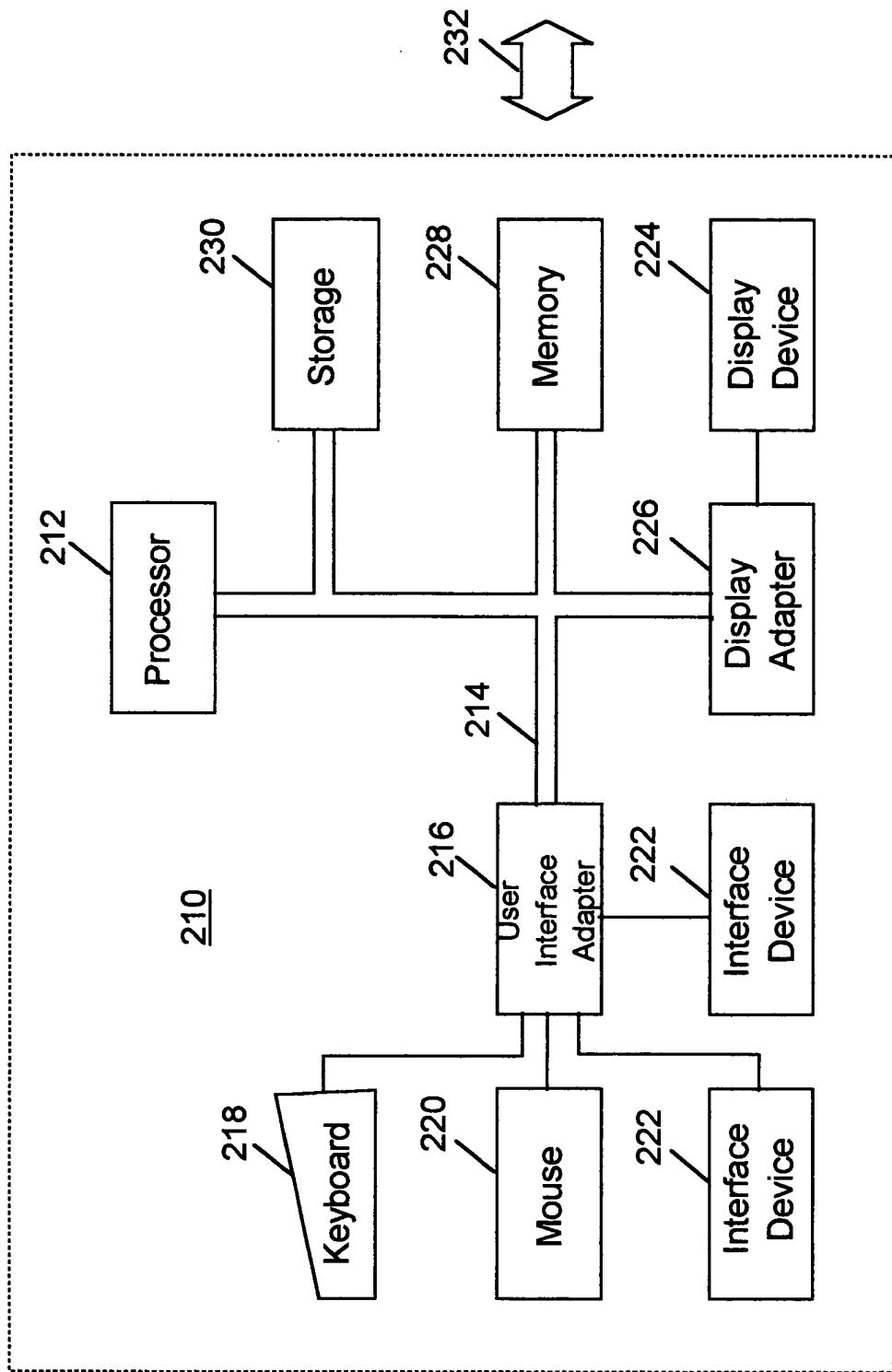


FIG. 3  
(PRIOR ART)

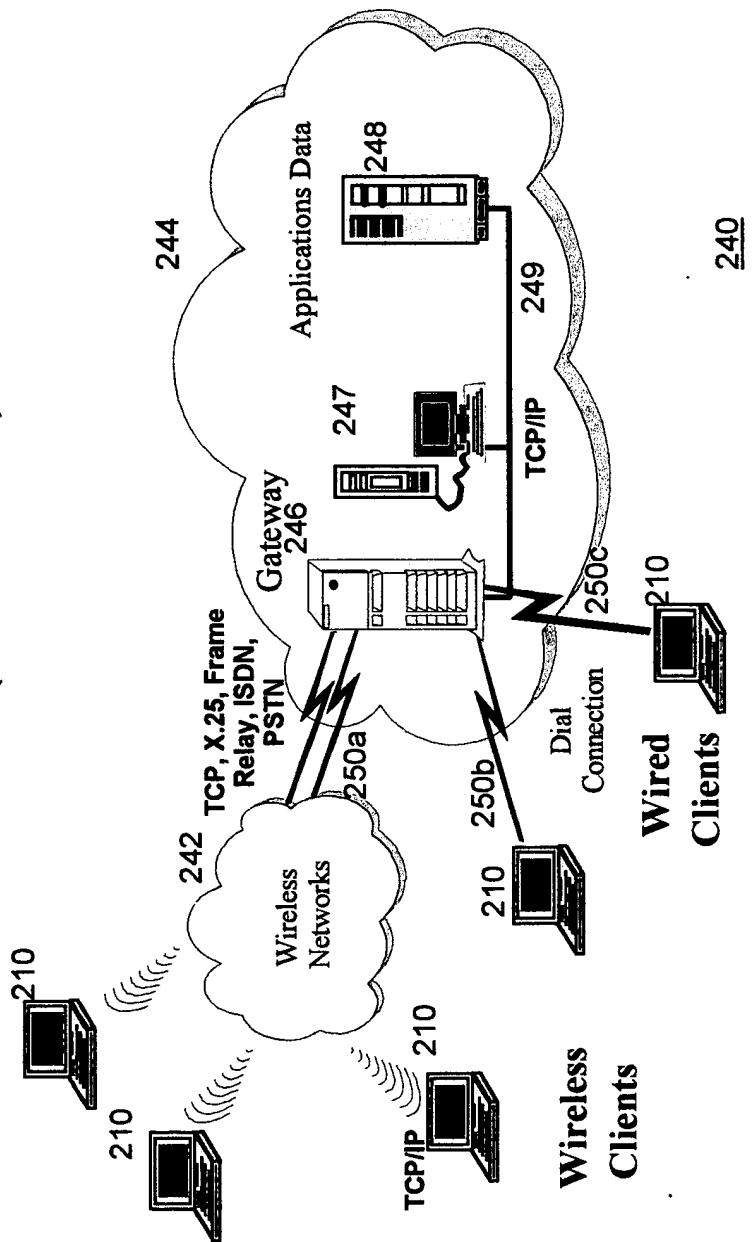


FIG. 4A  
(PRIOR ART)

400

```
<root_element>402
<level_one_element1 id="1" name="1">410
    A
    <level_two_element11> B </level_two_element11>412
    <level_two_element12> C </level_two_element12> 414
</level_one_element1>
<level_one_element2 id="2" name="2">420
    D
    <level_two_element21> E </level_two_element21>422
</level_one_element2>
</root_element>
```

FIG. 4B  
(PRIOR ART)

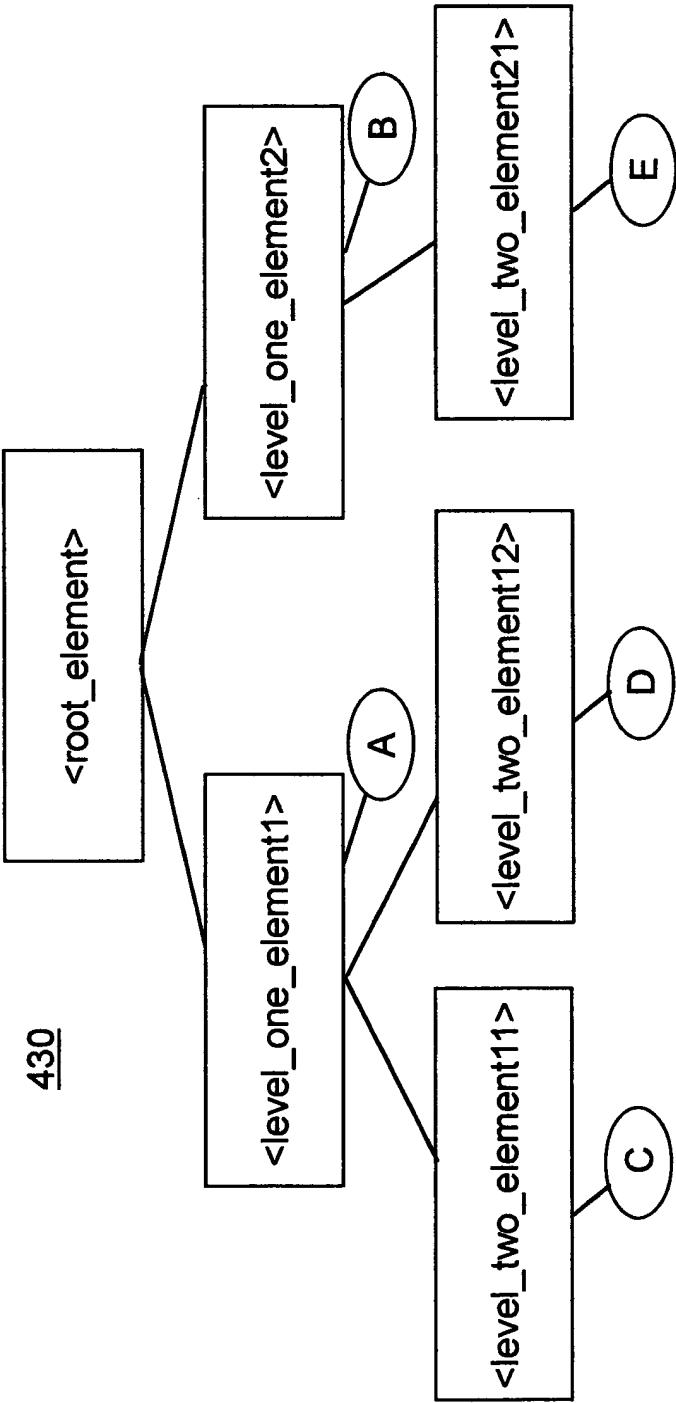


FIG. 4C

470

460

```
6(root_element;1,4;)(level_one_element1;2,3;0,2,2,1,3,4,7,1;8,1)
(level_two_element11;,,9,1)(level_two_element12;,,10,1)
(level_one_element2;5;11,2,13,1,14,4,18,1;19,1)
(level_two_element21;,,20,1)id1name1ABCid2name2DE
```

480

500

FIG. 5A

	0	505	1	506	2	66	93	121	168
501 start pointer	2	22							
502 length	12	18			19	19	18	19	19
503 buffer pointer	B	B	B	B	B	B	B	B	B

points to the mXML buffer

510

FIG. 5B

	0	515	1	2	3	516	4	5
511 start pointer	-1	8		9		10		19
512 length	-1	1		1		1		1
513 buffer pointer	DB	DB	DB	DB	DB	DB	DB	DB

points to the mXML data buffer

FIG. 5C

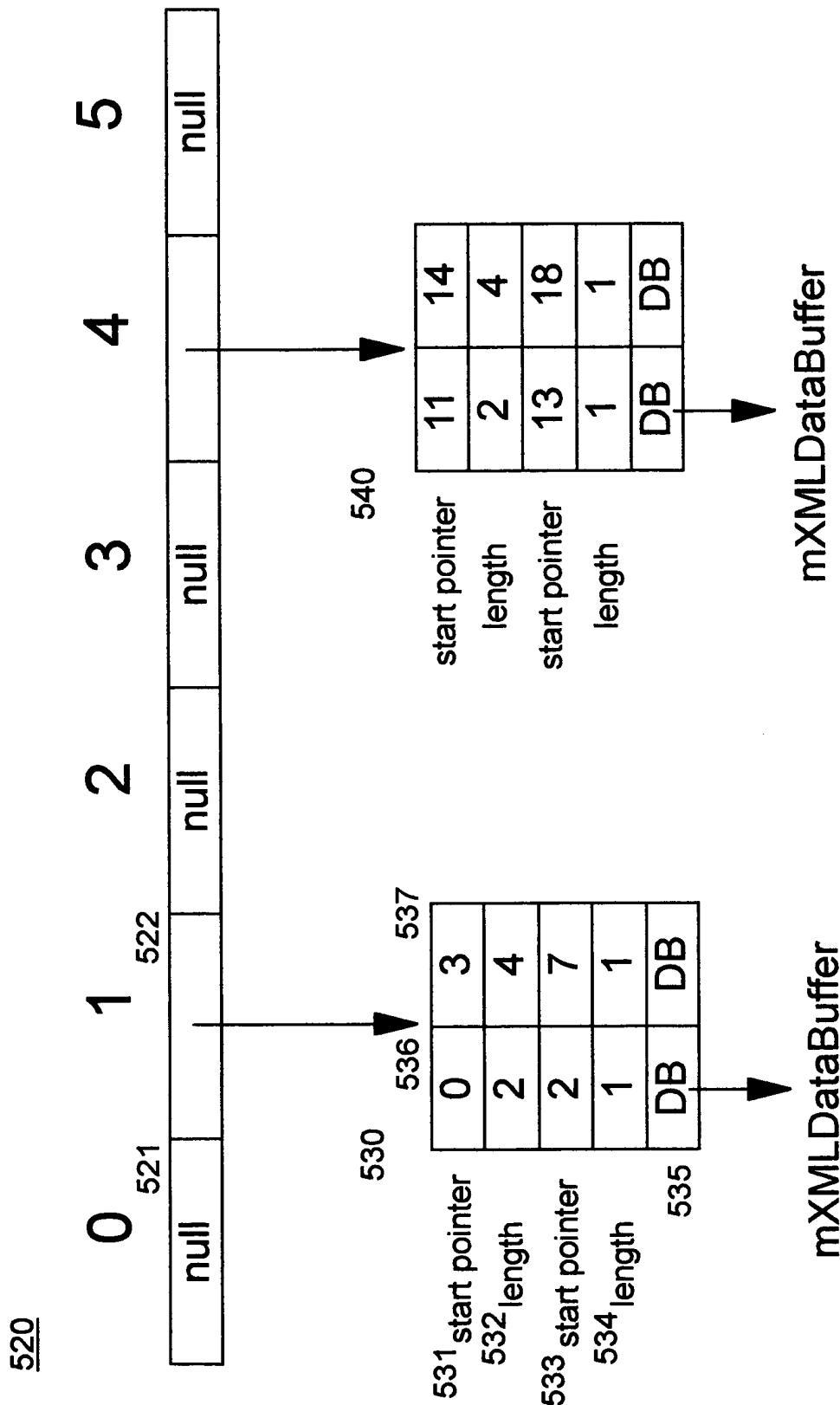


FIG. 5D

node index	0	1	2	3	4	5
550						
551	-1	0	1	1	0	1
552						
553						

FIG. 5E

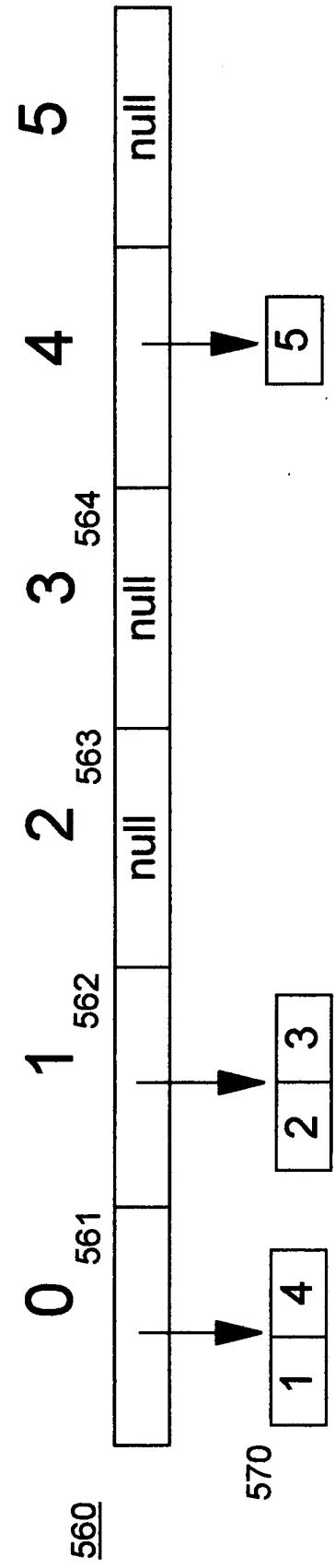


FIG. 6

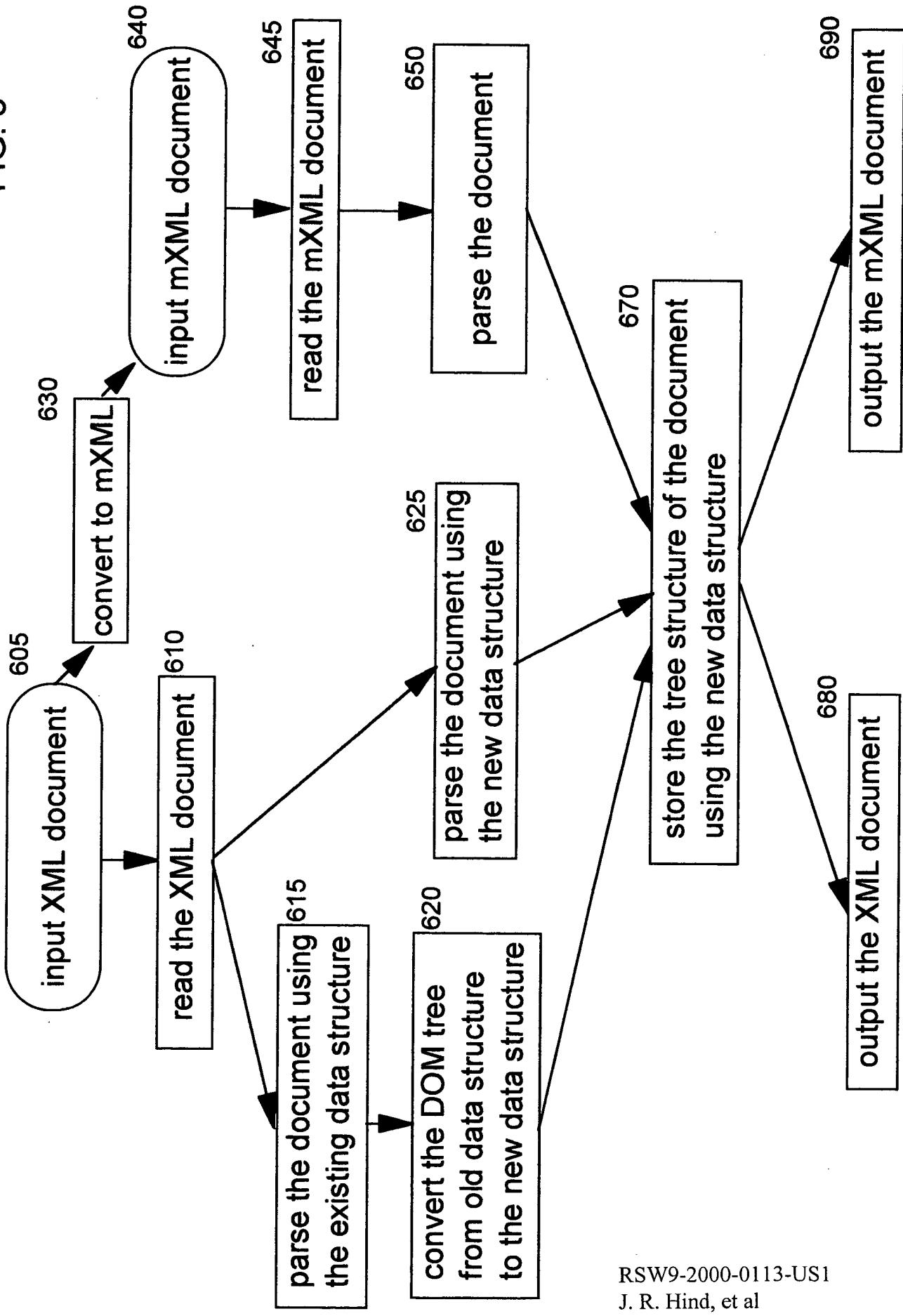
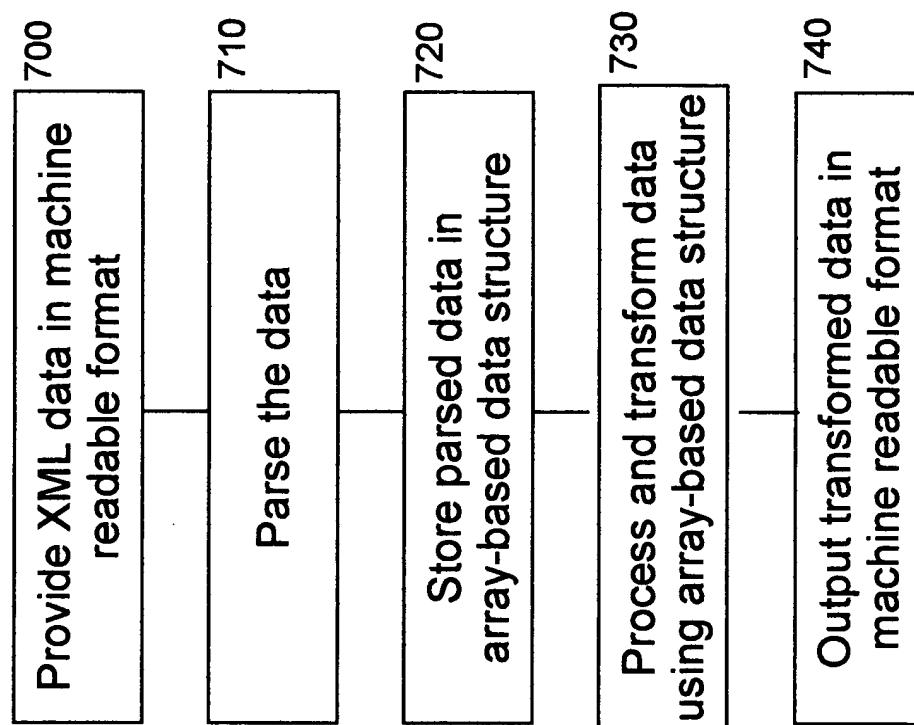


FIG. 7



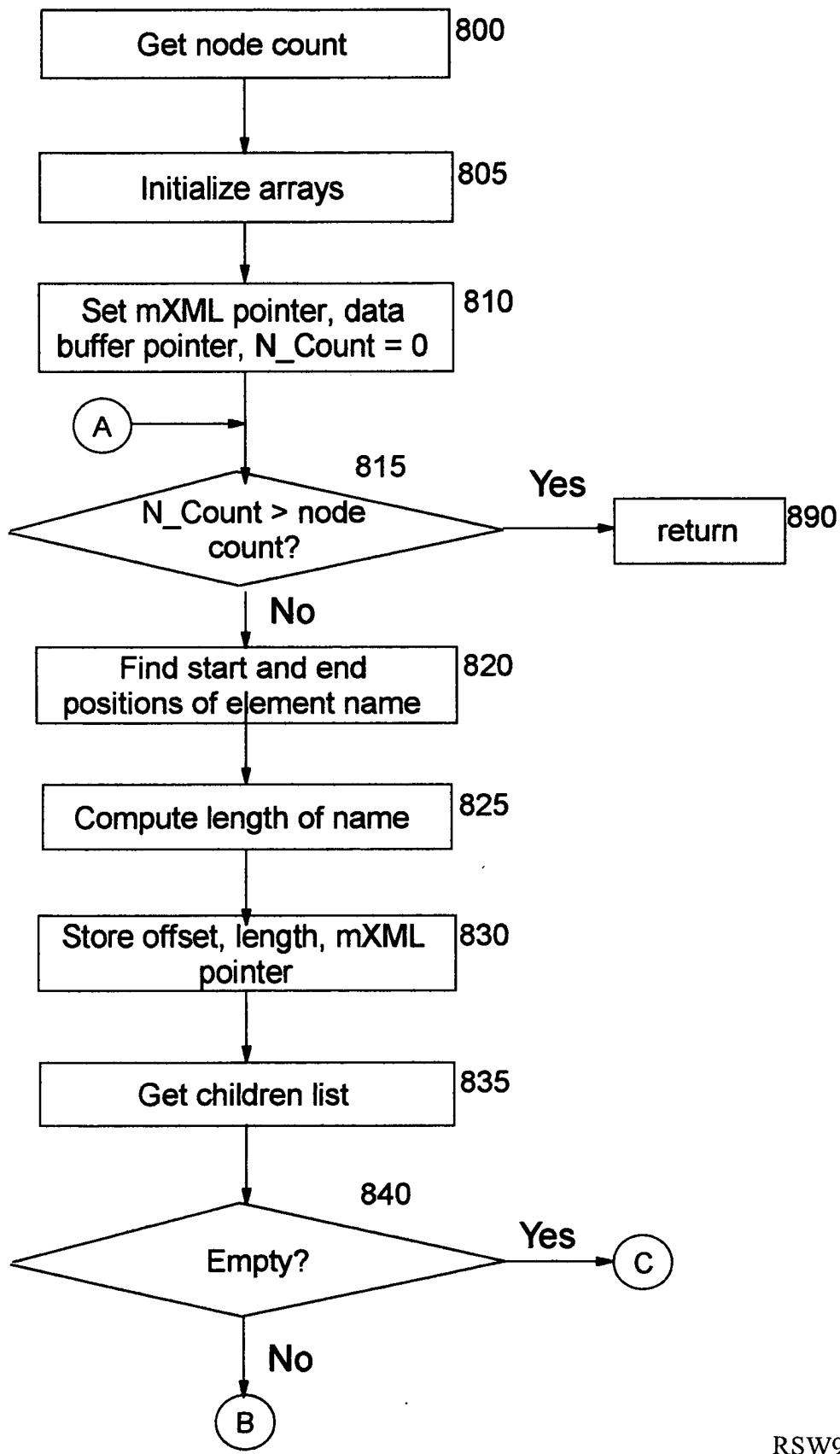


FIG. 8A

**FIG. 8A**

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**FIG. 8B**

**FIG. 8**

FIG. 8B

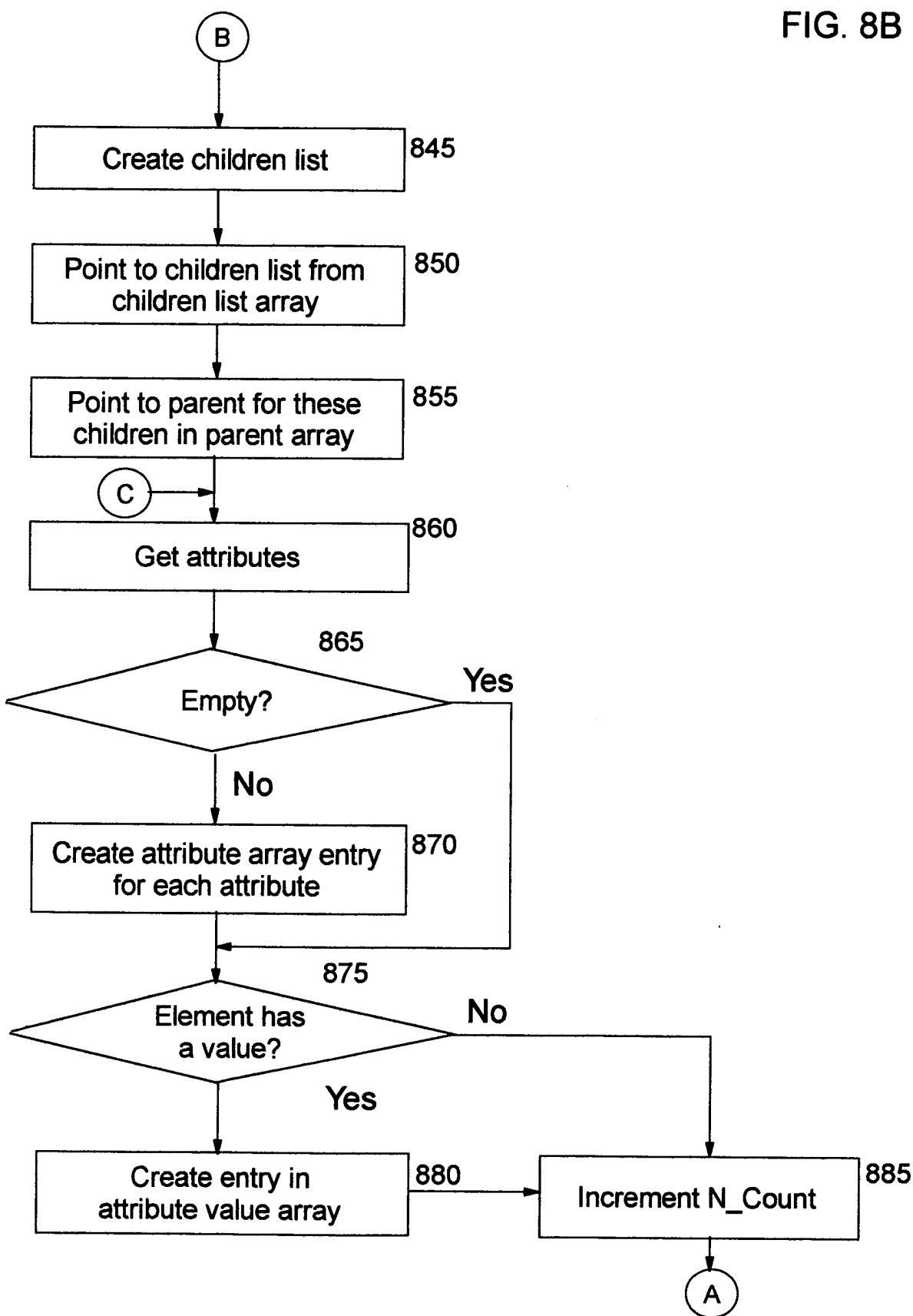


FIG. 9

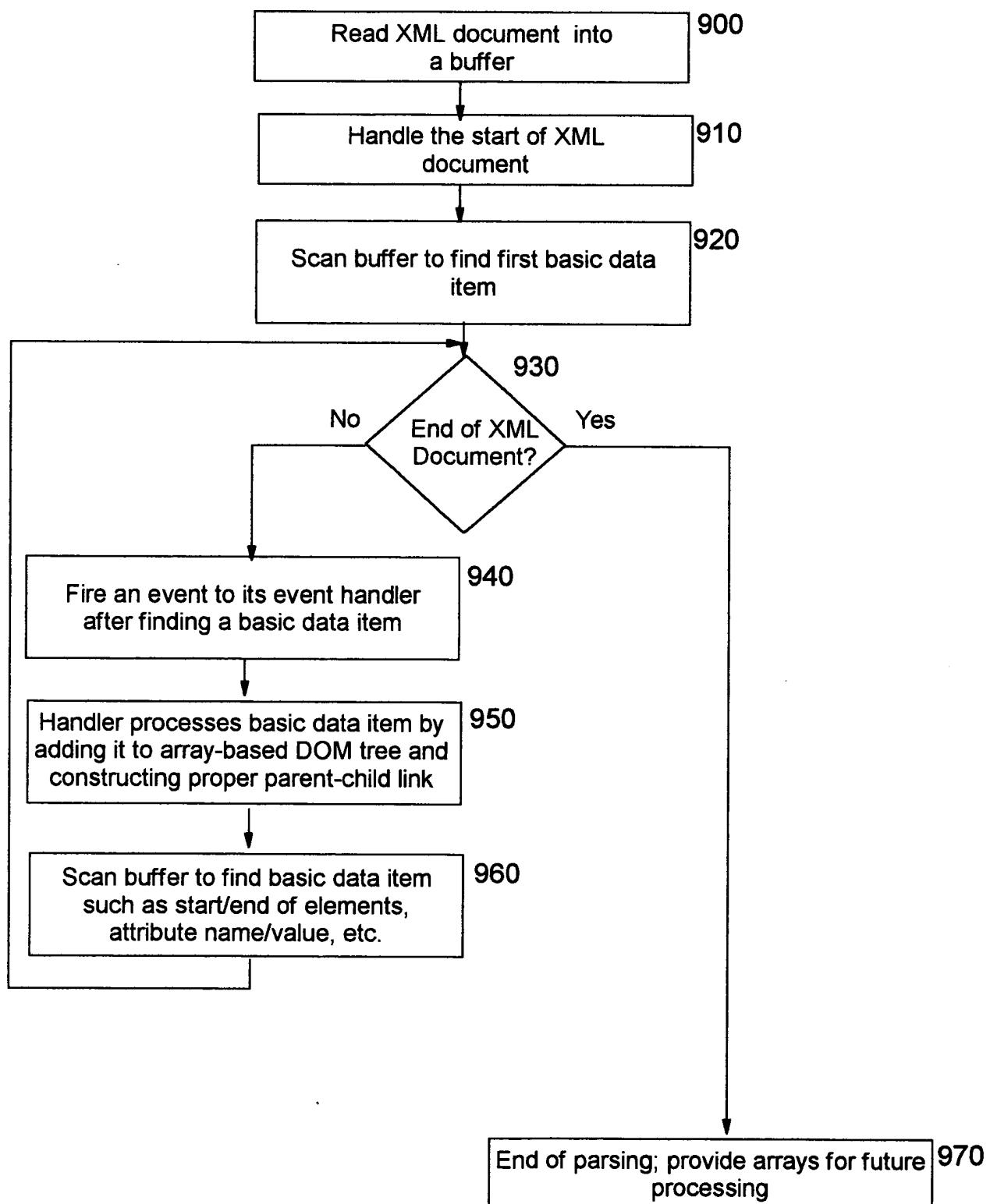


FIG. 10A

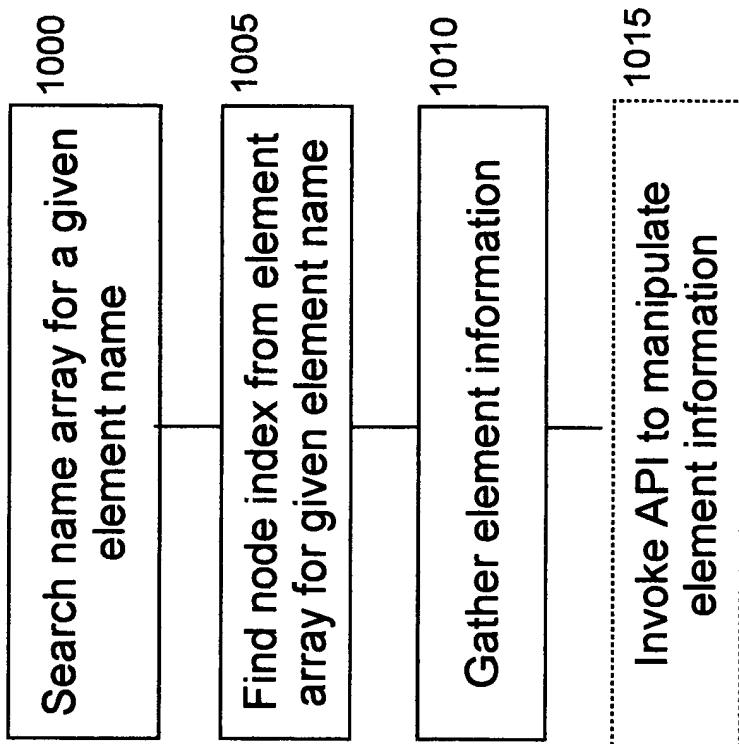


FIG. 10B



FIG. 10C

